

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1-13. (canceled).

14. (currently amended) A method of wireless communication between a first station and a second station, the method comprising:

at the first station, transmitting data packets to the second station using a first data modulation and a first data rate, wherein the first data modulation and the first data rate are predetermined using one or more attributes of the first station and the second station;

at the first station, transmitting acknowledgement packets to the second station in response to data packets received from the second station, using a first acknowledgement modulation and a first acknowledgement rate, wherein the first acknowledgement modulation and the first acknowledgement rate are predetermined using one or more attributes of the first station and the second station;

at the second station, transmitting data packets to the first station using a second data modulation and a second data rate, wherein the second data modulation and the second data rate are predetermined using one or more attributes of the first station and the second station; and

at the second station, transmitting acknowledgement packets to the first station in response to the data packets received from the first station, using a second acknowledgement modulation and a second acknowledgement rate, wherein the second acknowledgement modulation and the second acknowledgement rate are predetermined using one or more attributes of the first station and the second station,

wherein the first data rate is distinct from at least one of the second data rate, the first acknowledgement rate, or the second acknowledgement rate.

15. (original) A method of claim 14, wherein the first data modulation is distinct from at least one of the second data modulation, the first acknowledgement modulation, or the second acknowledgement modulation.

16. (currently amended) A method of claim 14, wherein the first data modulation, the second data modulation, the first acknowledgement modulation, and the second acknowledgement modulation are selected from [[and]] an 802.11b rate and an OFDM rate.

17. (original) A method of claim 16, wherein at least one of the first data modulation, the second data modulation, the first acknowledgement modulation, and the second acknowledgement modulation is an 802.11b modulation and at least one of the modulations is an OFDM modulation.

18. (new) A method of wireless communication between a first station and a second station, the first station comprising a more sensitive receiver and the second station comprising a less sensitive receiver, the method comprising:

at the first station, transmitting data packets to the second station using a first modulation selected from a set of 802.11b modulations at a first data rate selected from a set of 802.11b rates;

at the first station, transmitting acknowledgement packets using a first acknowledgement modulation selected from the set of 802.11b modulations at a second acknowledgement rate selected from the set of 802.11b rates;

at the second station, transmitting data packets to the first station using a second modulation selected from a set of OFDM modulations at a second data rate selected from a set of OFDM rates; and

at the second station, transmitting acknowledgement packets using a second acknowledgement modulation selected from the set of OFDM rates.

19. (new) The method of claim 18, wherein the first data rate and the first acknowledgement rate are different rates selected from the 802.11b rates.

20. (new) The method of claim 18, wherein the first data modulation and the first acknowledgement modulation are different modulations selected from the 802.11b modulations.

21. (new) The method of claim 18, wherein the second data rate and the second acknowledgement rate are different rates selected from the OFDM rates.

22. (new) The method of claim 18, wherein the second data modulation and the second acknowledgement modulation are different modulations selected from the OFDM modulations.

23. (new) The method of claim 18, wherein the first station comprises a power-constrained device with limited transmission power and the second station comprises a non-power-constrained device.

24. (new) A method of wireless communication between a first station and a second station, the method comprising:

at the first station, transmitting data packets to the second station using a first data modulation and a first data rate, wherein the first data modulation and the first data rate are predetermined using one or more attributes of the first station and the second station;

at the first station, transmitting acknowledgement packets to the second station in response to data packets received from the second station, using a first acknowledgement modulation and a first acknowledgement rate, wherein the first acknowledgement modulation and the first acknowledgement rate are predetermined using one or more attributes of the first station and the second station;

at the second station, transmitting data packets to the first station using a second data modulation and a second data rate, wherein the second data modulation and the second data rate are predetermined using one or more attributes of the first station and the second station; and

at the second station, transmitting acknowledgement packets to the first station in response to the data packets received from the first station, using a second acknowledgement modulation and a second acknowledgement rate, wherein the second acknowledgement modulation and the second acknowledgement rate are predetermined using one or more attributes of the first station and the second station,

wherein the first data rate is distinct from at least one of the second data rate, the first acknowledgement rate, or the second acknowledgement rate.

25. (new) A method of wireless communications with a first station, the method comprising:

transmitting a first data packet to a second station using a first wireless communication protocol, wherein first wireless communication protocol is predetermined using one or more attributes of the second station; and

receiving a second data packet from the second station, the second data packet transmitted using a second wireless communications protocol, wherein first wireless communication protocol is predetermined using one or more attributes of the first station.

26. (new) The method of claim 25, further comprising:

receiving a first acknowledgment packet from the second station using a third wireless communication protocol in response to sending the first data packet to the second station, wherein the third wireless communication protocol is predetermined using one or more attributes of the second station;

transmitting a second acknowledgment packet to the second station in response to receiving the second data packet from the second station, wherein the second data packet is transmitted using a fourth wireless protocol, and wherein the fourth wireless communication protocol is predetermined using one or more attributes of the first station.

27. (new) The method of claim 26, wherein the first wireless protocol and the third wireless communications protocols are different wireless communications protocols.

28. (new) The method of claim 26, wherein the second wireless communications protocol and the fourth wireless communications protocol are different wireless protocols.

29. (new) The method of claim 25, wherein the one or more attributes of the second station used to determine the first wireless communication protocol include whether the first station includes a weaker transmitter than the second station.

30. (new) The method of claim 25, wherein the one or more attributes of the first station used determine the second wireless communication protocol include whether the first second includes a weaker transmitter than the first station.

31. (new) The method of claim 25, wherein the one or more attributes of the second station used to determine the first wireless communication protocol include whether the first station includes a more sensitive receiver than the second station.

32. (new) The method of claim 25, wherein the one or more attributes of the first station used determine the second wireless communication protocol include whether the first second includes a more sensitive receiver than the first station.